International application No.

PCT/AU2004/000775

					I C 1/A 02004	7000775
A	CLASSIFICATION OF SUBJECT MAT	TER				
Int. Cl. 7:	C07K 14/02; C07K 7/00; C12 N 5/00	; A61k	ረ 38/00; A61P 37/	00; 31/12		
According to	International Patent Classification (IPC) or	r to bot	h national classificat	ion and IPC		
В.	FIELDS SEARCHED					•
Minimum docu SEE BELO	umentation searched (classification system follow)	wed by	classification symbols	)	<u> </u>	
Documentation SEE BELOV	n searched other than minimum documentation	to the ex	stent that such docume	nts are include	d in the fields searc	hed
Electronic data STN (Medli	base consulted during the international search ne; CA; WPIDS; Biosis): overlap; part	(name o	of data base and, where	practicable, se	arch terms used)	
c.	DOCUMENTS CONSIDERED TO BE RELE		pudo, in voi lympi	locyte of 1	cen, antigen pre	senung cen
Category*	Citation of document, with indication, w	here ap	propriate, of the rele	evant passage	S	Relevant to
X,Y	WO 2002062375, A (MERCK PAT) 21	ENT C	MBH et al) 15.08	.2002; see T	able 1; claim	1-43
X	WO 2001040281, A (THROMB-X 1	NV et a	al) 07.06.2001; see	claim 1		1-43
. <b>X</b>	WO 2001019408, A (ZYCOS INC E	ET AL)	) 22.03.2001; see c	laims		1-43
x	WO 2001016163, A (EURODIAGN	OSTIC	CA AB) 08.03.200	1; see p3		1-43 .
X F	further documents are listed in the cont	inuatio	on of Box C	X See pa	tent family anne	ex .
"A" docume not cons	categories of cited documents:  nt defining the general state of the art which is  idered to be of particular relevance  pplication or patent but published on or after the  ional filing date	"X"	later document published conflict with the applicat underlying the invention document of particular re or cannot be considered	ion but cited to u elevance: the clai	inderstand the princip	he considered powel
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) another referring to an oral disclosure, use, exhibition						be considered to
or other document	means nt published prior to the international filing date than the priority date claimed	"&"	document member of the	same patent fam	úly	
Date of the actu	ual completion of the international search		Date of mailing of	the internation	nal search report	
22 July 2004			_		•	JUL 2004
AUSTRALIAN PO BOX 200, 1 E-mail address:	ing address of the ISA/AU  PATENT OFFICE  WODEN ACT 2606, AUSTRALIA  pct@ipaustralia.gov.au		Authorized officer  MADHU K. J	7		
Facsimile No.	(02) 6285 3929		Telephone No : ((	02) 6283 251	12	

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C (Continuat	PCI/AU2004	000773					
	To be about the						
Category*	Citation of document, with indication, where appropriate, of the relevant passages						
х	WO 2001007625, A (CORNELL RESEARCH FOUNDATION, INC ET AL) 01.02.2001; see claims	1-43					
X	WO 1994003487, A (ZAGURY J-K) 17.02.1994; see abstract; claims	1-43					
X,Y	J Immunological Methods 255, pp 27-40 (2001) MAECKER et al "Use of overlapping peptide mixtures as antigens for cytokine flow cytometry"; see abstract	1-43					
X,Y	Vaccine 21, pp 761-767 (Jan 30, 2003) CHOI et al "Functional mapping of protective epitopes within the rotavirus VP6 protein in mice belonging to different haplotypes"; see abstract	1-43					
x	Protein Engineering 16, pp 311-317 (April 2003) TRIVEDI et al "The LLSGIV stretch of the N-terminal region of HIV-1 gp41 is critical for binding to a model peptide, T20"; see abstract	1-43					
X	Vaccine 20, pp 3685-3694 (2002) DRABNER et al "Identification of T helper cell-recognised epitopes in the chitinase of the filarial nematode <i>Onchocerca volvulus</i> "; see abstract	1-43					
X	J Acquired Immune Deficiency Syndromes 6, pp 881-890 (1993) BLAZEVIC et al "Helper T-cell recognition of HIV-1 Tat synthetic peptides"; see abstract	1-43					
X	Clin Exp Immunol 104, pp 394-397 (1996) MARTTILA et al "Definition of three minimal T helper cell epitopes of rubella virus E1 glycoprotein"; see figure 2; abstract	1-43					
<b>X</b>	J General Virology 77, pp 1659-1665 (1996) VAN BAALEN et al "Fine-specificity of cytotoxic T lymphocytes which recognize conserved epitopes of the Gag protein of human immunodeficiency virus type 1"; see abstract	1-43					
X	J Biol Chem 273, pp 15895-15900 (1998) ALBINI et al "Identification of a novel domain of HIV Tat involved in monocyte chemotaxis"; see p 15895; abstract	1-43					
X,Y	Vaccine 12, pp 117-128 (1994) WENTWORTH et al "Epitopes recognized by HIV-SF2 nef-specific CD4+ T-cell clones generated from HIV-1-uninfected donors"; see p 117; abstract	1-43					
X	J Virology 73, pp 4257-4265 (1999) LONNING et al "Gag protein epitopes recognized by CD4+ T-helper lymphocytes from equine infections anemia virus-infected carrier, horses"; see p 4257	44-52					

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C (Continuati	on) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2002036748, A (NEXELL THERAPEUTICS, INC et al) 10.05.2002; see p13	44-52
Х	AIDS 7, pp 781-786 (1993) VAN BAALEN et al "Selective in vitro expansion of HLA class I-restricted HIV-1 Gag-specific CD8+ T cells: cytotoxic T-lymphocyte epitopes and precursor frequencies"; see p 782	
X	Thromb Haemost 87, pp 666-73 (2002) WARMERDAM et al "Elimination of a human T-cell region in Staphylokinase by t-cell screening and computer modeling"; see p667; Figures	44-52
P,X	Current Drug Targets 5, pp 71-88 (2004) STRATOV et al "Vaccines and vaccine strategies against HIV"; see whole document	1-43
X,Y	J Virology 76, pp 2298-2305 (2002) EDWARDS et al "Magnitude of functional CD8+ T-cell responses to the Gag protein of human immunodeficiency virus type 1 correlates inversely with viral load plasma"; see abstract	1-43
		·

International application No.

PCT/AU2004/000775 Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This inte	national search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
	to subject matter not required to be searched by this Authority, namely:
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2.	Claims Nos.:
	because they relate to parts of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of the international application that do not assume the state of
	an extent that no meaningful international search can be carried out, specifically:
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3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No.	II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	national Searching Authority found multiple inventions in this international application, as follows:
	upplemental Box
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report
<u></u> -	covers only those claims for which fees were paid, specifically claims Nos.:
4	No required additional and G
<del>"</del> . ∟	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	n Protest X The additional search fees were accompanied by the applies at
_	The second areas were necompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

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(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No:III

The present invention constitutes multiple inventions as follows:

Invention 1: Claims 1-43 relate to use of at least one set of polypeptides in the preparation of a medicament for modulating an immune response comprising different portions of an amino acid sequence corresponding to a single polypeptide of interest and display partial sequence identity or similarity to at least one other peptide of the same set of peptides, and methods and compositions thereof.

Invention 2: Claims 44-52 relate to use of uncultured antigen-presenting cells or their precursors in the preparation of a medicament.

There does not appear to be a common special technical feature that can be said to unite the two inventions. The common partial sequences are distinct features of Invention 1. These features are not recited in Invention 2. The only remote similarity of these inventions relate to the subject matter of immune system. However, this broad connection does not unite the two inventions.

Information on patent family members

International application No. PCT/AU2004/000775

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Pate	nt Document Cited in Search Report			· Pat	ent Family Member		
WO	2002062375	BR	0207014	. BR	0207015	BR	0207016
		BR	0207017	BR	0207018	BR	0207010
		BR	0207281	CA	2437214	CA	2437263
		CA	2437265	CA	2437270	CA	2437272
		CA	2437287	CA	2438513	CA	2437272
.•	,	EP	1357933	EP	1357934	EP	1360200
		EP	1360201	EP	1361893	EP	1366455
		EP	1387856	EP	1392731	HU	0303150
	• •	HU	0303173	HU	0303199	HU	0400698
		HU	0400700	HU	0400703	US	2004062749
		US	2004063634	US	2004063917	US	2004072219
		US	2004072291	· US	2004076991	US	2004096442
		WO	02062832	WO	02062833	WO	. 02062842
	,	WO	02062843	WO.	02066058	WO	02069232
		WO	02077034	_			
WO_	2001040281	AU	23633/01	EP	1252183	US	2003134335
WO	2001019408	AU	75891/00	CA	2384987	EP	1214097
VO.	2001016163	AU	79031/00	EP	1206278		
VO	2001007625	AU	62257/00	BR	0012556	CA	2375650
		CZ	20020601	EP	1210438	ZA	200200035
VO	1994003487	AU	47129/93	EP	0656010	FR	2694560
		FR	2694938				
VO	2002036748	ΑU	18019/02			<del> </del>	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX